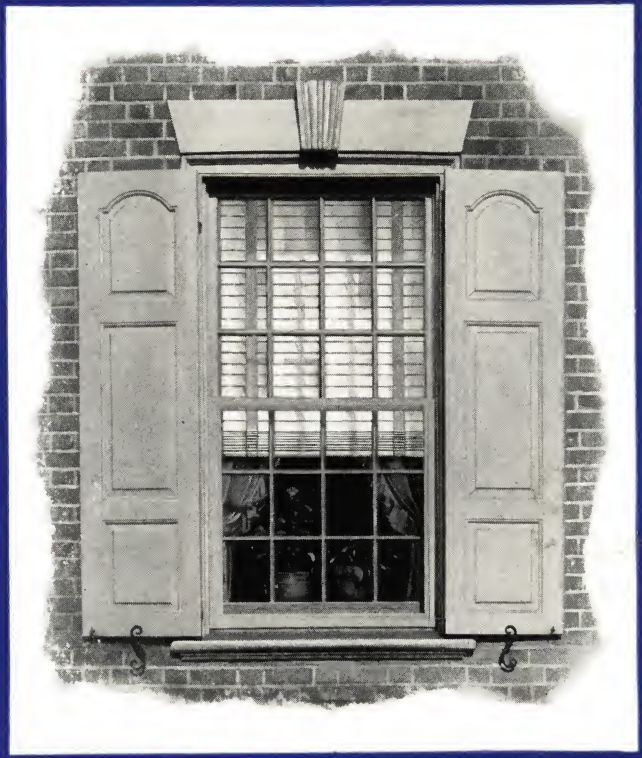


Columbia

VENETIAN BLINDS *and* WINDOW SHADES

THE COLUMBIA MILLS

INCORPORATED

225 FIFTH AVENUE, NEW YORK

Columbia WINDOW TREATMENTS

VENETIAN BLINDS

WINDOW SHADES

SHADE CLOTH

SHADE ROLLERS

AWNING ROLLERS

The Columbia Mills, Inc. are the largest manufacturers of Venetian Blinds and Window Shades. With factories in the East, Middle West and Far West they are fully equipped to give the best in service and workmanship on jobs of any size. Nearly half a century of manufacturing progress behind them, Columbia products are the recognized standards.

VENETIAN BLINDS

Columbia Venetian Blinds are sold by Authorized Dealers, located throughout the country. These dealers have been appointed for their responsibility and their ability to best fulfill the Architects' requirements. They are prepared to co-operate with the profession in planning and carrying out installations.

The names of authorized dealers in your locality will be furnished upon request. Their services can be fully relied upon and will meet with your approval.

WINDOW SHADES AND ROLLERS

Columbia Window Shades and Rollers are obtainable in specialty window shade shops, reliable department stores and at house furnishing stores all over the country, so that there is never any difficulty in procuring replacements, regardless of who makes the original installation.

ARCHITECTURAL SERVICE

Architects are invited to avail themselves of Columbia's Architectural Service Department. An expert will assist you in solving your Venetian Blind and Window Shading problems, and will help you to prepare specifications. Each of our branch sales offices (listed on the back cover) maintains such a service. Through this means you may be assisted in the selection of the proper type of window treatment, and be recommended to reliable dealers to supply your needs.

THE COLUMBIA MILLS, INC.

GENERAL OFFICES: 225 FIFTH AVENUE, NEW YORK

Columbia manufactures two brands of Venetian Blinds, each for a purpose all its own. These are the Residential and Controlite brands. Both are made-to-order only to fit the windows for which they are intended.

The two brands are all made with the same high standards of workmanship and material. Every blind is subject to the same rigid inspection and careful supervision.

All wooden parts are made of basswood, thoroughly and scientifically seasoned in our own dry kilns. After careful sanding they are finished with high grade enamel. The entire manufacturing process from dry kilns to assembly is done in our own plants. Mechanical parts are patented, developed and manufactured by us.

Both Residential and Controlite Blinds are made with either Open Heads or Enclosed Heads. In the latter all operating mechanisms are concealed in a small wooden box at the head of the blind. This feature is illustrated in the following pages.

Columbia VENETIAN BLINDS

RESIDENTIAL*

FOR RESIDENCES—1¾" SLATS—MAXIMUM AREA 100 SQ. FT.

The Columbia Residential Blind is particularly smart, designed especially for homes. Its chief feature is its narrow 1¾" slats that give the blind a neat, compact appearance. In most cases it can be hung directly to the stop-bead of the window. Being made for residential windows, it is not manufactured in sizes over 100 sq. ft. in area or 12 ft. in width.

CONTROLITE*

FOR COMMERCIAL AND RESIDENTIAL WORK
2⅜" SLATS. MAXIMUM AREA 250 SQ. FT.

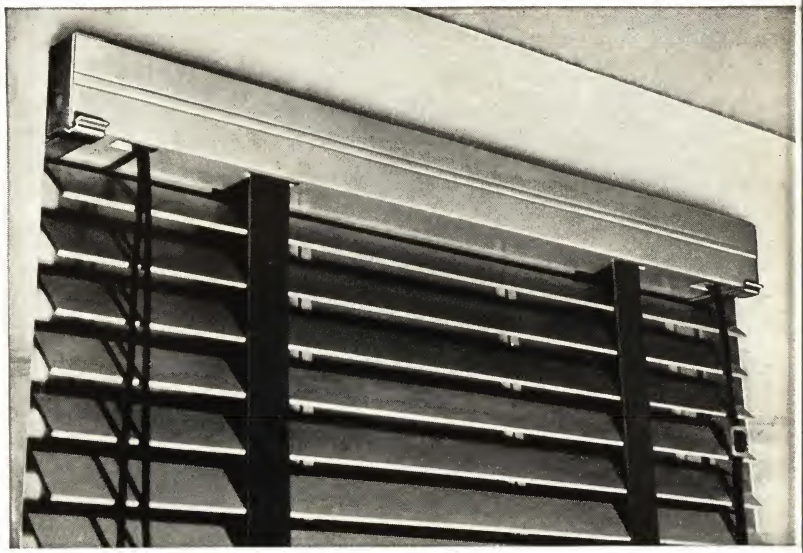
Where cost is a factor the use of the Controlite Blind is suggested. It is sturdy and well built, guaranteed to meet the most rigorous requirements. It is equipped with the silent Worm Gear Tilt which insures positive tilting and the unique Columbia Automatic Safety Stop.

*Reg. U. S. Pat. Off.

Columbia

ENCLOSED HEAD

VENETIAN BLINDS

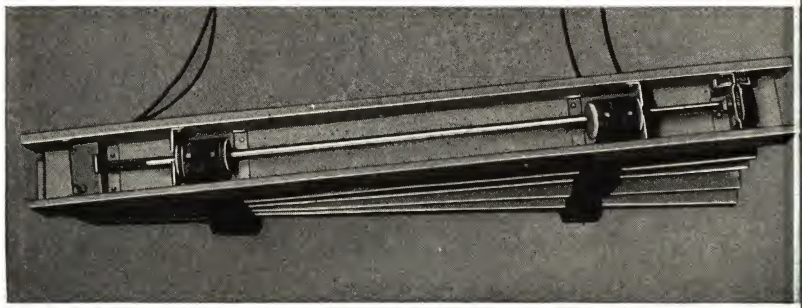


Close-up Enclosed Head Blind

Both Columbia Residential and Controlite Blinds are available with an Enclosed Head. This is a wooden casing 2½″ deep by 2-7/16″ high at the head of the blind, in which all of the operating mechanisms are concealed. The tapes are carried on rollers in the Head instead of on a tilt rail as in Open Head Blinds. Tilting is accomplished by rotating the rollers through the patented Worm Gear Tilt, operated by cords on the left side of the blind. The lifting cords run over lignum vitae pulleys, through the Automatic Safety Stop, all of which are concealed in the Enclosed Head.

The Enclosed Head does away with the need for fascia or valances and presents a neat tailored appearance. The face of the Head may be had either plain or with small bead running horizontally in the center.

For installations on the face of casing, the Columbia bracket closes the ends of the head and covers are furnished to keep the mechanism free from dust.



View of Mechanism in Enclosed Head

Universal Snap Block Bracket for Enclosed Head Blind

The illustration above shows a Columbia Universal Bracket for the Enclosed Head blind. This may be fastened with screws to the inside or outside or soffit of the window casing. When used for outside-of-casing installations the Universal Bracket closes the ends of the Enclosed Head.

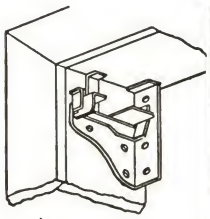
Its operation is extremely simple and fool-proof. When it is screwed in place the Enclosed Head slips into place and automatically locks itself there. To take blind down it is only necessary to depress the trigger guards and the blind may be removed without tools or unfastening any screws.

Brackets are painted to match the blind.

FEATURES OF

Columbia

VENETIAN BLINDS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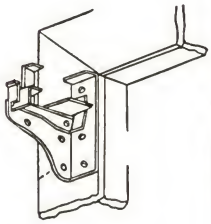
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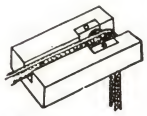
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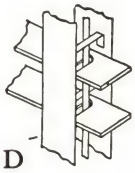
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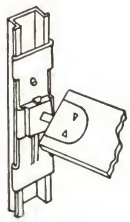
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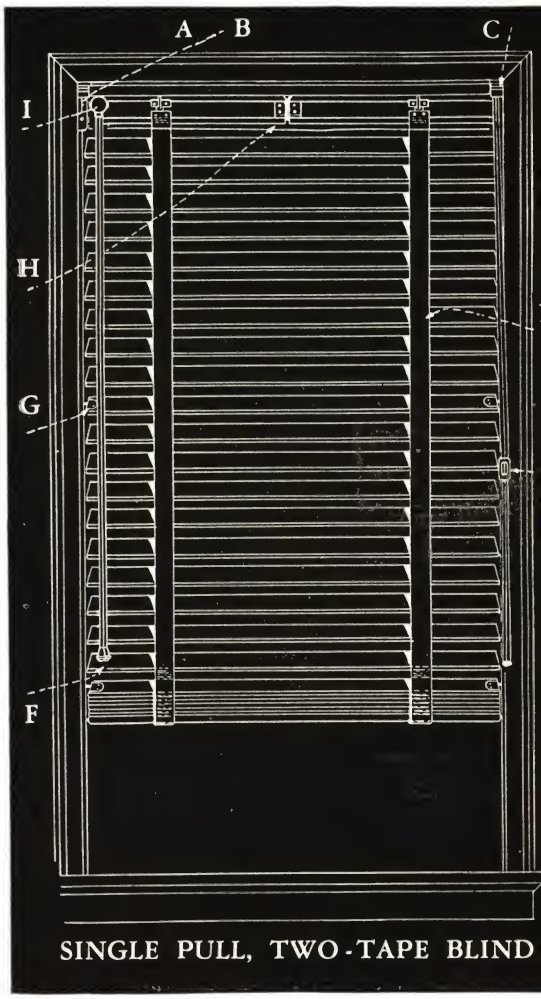


SINGLE PULL, TWO-TAPE BLIND

A and B—UNIVERSAL BRACKETS.
Brackets may be attached to either inside (A) or outside (B) of window casing. Head rail of blind slips into brackets and locks itself there. Instantly removable by finger pressure on retaining guard.

C—AUTOMATIC STOP.
This is a patented Automatic Safety Stop which locks the lifting cords the moment pressure on them is released. To disengage Stop cords are drawn toward centre of window. Then blind may be raised or lowered and stops automatically as soon as cords are released.

D—TAPES.
Specially woven tapes, vat dyed to make them as sunfast as possible. Cross tabs or ladders are woven into the tapes.

E—EQUALIZER CLIP.
This is standard equipment on all blinds and is used to keep the lifting cords uniform for level raising or lowering of the blind.

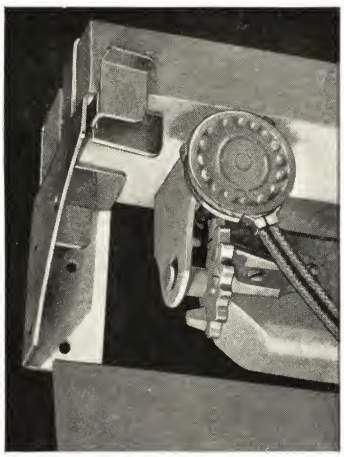
F—CORDS.
Standard No. 4½ solid braided cords are used to operate the Tilting Device and for raising the blind. Tilt Cords are furnished with wooden knobs, painted to match the blind. Lift cords are endless.

G—SLIDER GUIDES.
An optional feature used to prevent blinds from swaying or billowing in the wind. See page 10 for complete details. May be used in place of Snap Stop.

H—ANTI-SAG CENTER SUPPORT.
Used on wide Columbia blinds to eliminate all possibility of sagging. It is anchored to the head rail and supports the tilting rail.

I—WORM GEAR TILT DEVICE.
This is a three piece die cast unit of extremely smooth action. For Enclosed Head blind cut steel and brass gears are used. Because of worm gear action slats cannot be jarred accidentally out of position.

CORD HOLDER. Not illustrated.
This is furnished only when Automatic Stop is omitted. Lifting cords are tied to Cord Holder. An adapted plate, furnished to match blind is furnished where necessary.

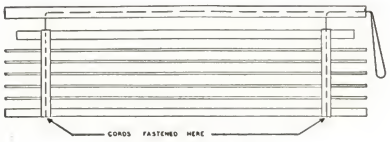


Columbia Worm Gear Tilt Open Head Blind

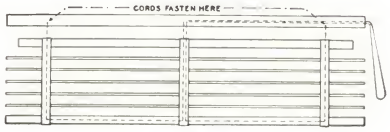
DETAILS OF OPERATING MECHANISM

OF REGULAR PULLEY TYPE BLINDS

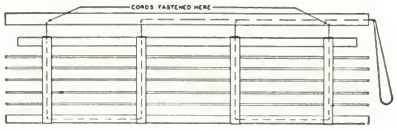
THREE TYPES OF PULLEY ARRANGEMENTS



Single Pull, two tapes for widths up to 60"

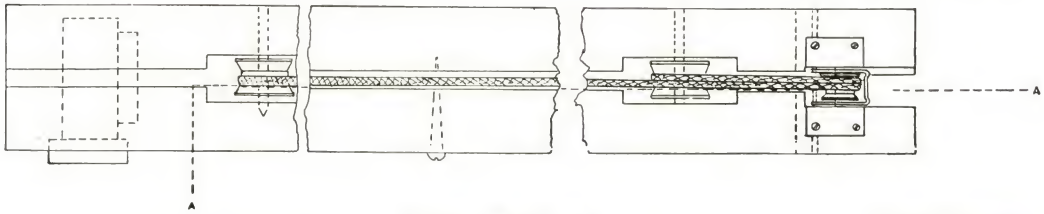


Compound Pull, three tapes for widths over 60"

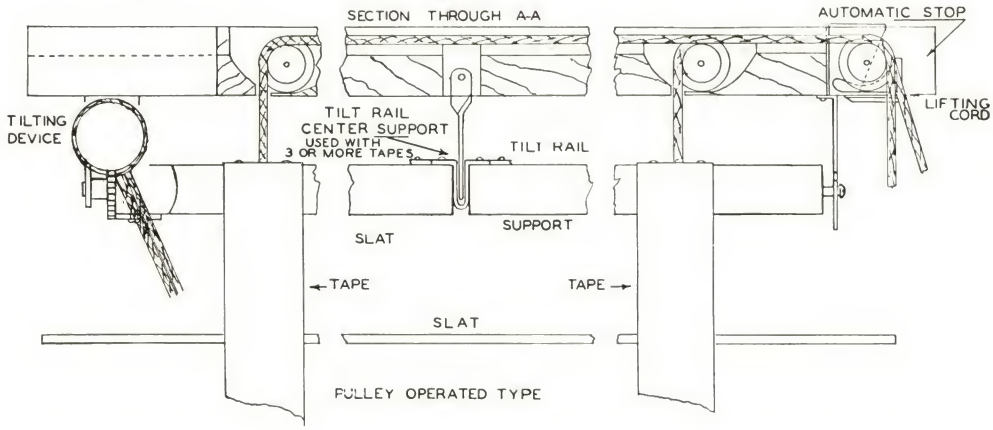


Compound Pull, four tapes for areas up to 100 sq. ft.

Plan looking down on headrail



Front view of blind, section through headrail at AA



The raising and lowering of average size Residential and Controlite blinds is accomplished by means of cords and pulleys. In blinds up to 60" wide inclusive, the lifting cords are anchored in the bottom rail, rise behind the tapes, and run over pulleys in the head rail through the Automatic Stop. This is called Single Pull Operation.

As blinds increase in size, they also increase in weight and hence require more pulleys to reduce the pull necessary to raise or lower them. In blinds over 60" wide the cords are anchored in the Head Rail and run over pulleys in both the Head and Bottom Rails. This is called Compound Pull Operation.

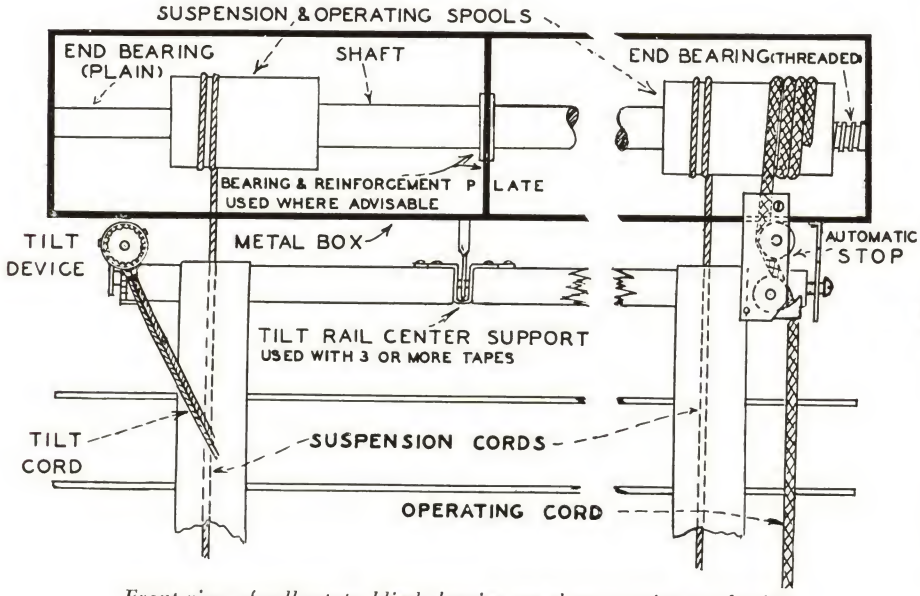
Illustrations of the different Pulley operations are shown above.

The routings and channels through which the operating cords run in the Columbia blinds are clean and smooth. There are no rough spots or jagged edges to fray the cords or impede their smooth running. This is one of the many advantages found in the Residential and Controlite blinds.

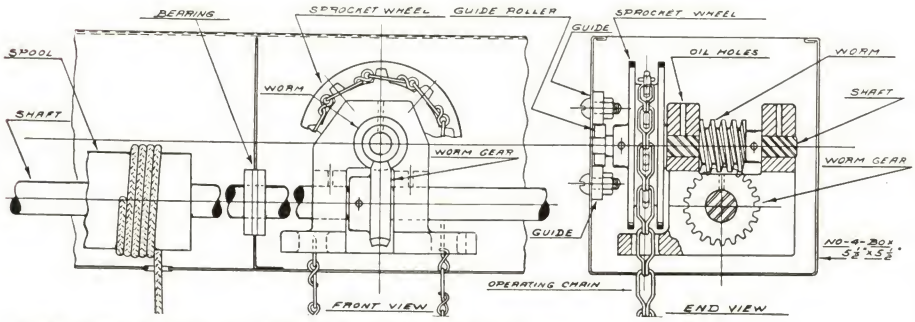
In single pull blinds, where lifting cords are anchored in the Bottom Rail, the tapes are also fastened at the same point but in such a manner that the cord anchorage is easily accessible without the necessity of removing the tapes. This has the double advantage of permitting replacement of cords or slats without completely disassembling the blind.

Not shown in the details, is the patented Tilt Bracket Guard. The Tilt Rail Bracket is at the right end of the Tilt Rail. It is fastened to the Head Rail and in it the Tilt Rail pivots. The Guard keeps the Tilt Rail from jumping out of the bracket. By releasing this guard the Tilt Rail may be taken out of the bracket, disengaged from the Tilting Device, and tilt rail and slats dropped to the bottom of the blind. This makes the entire window accessible for cleaning without having to take down the blind.

DETAILS OF OPERATING MECHANISM OF ROLLER TYPE BLINDS



Front view of roller type blind showing regular operating mechanism



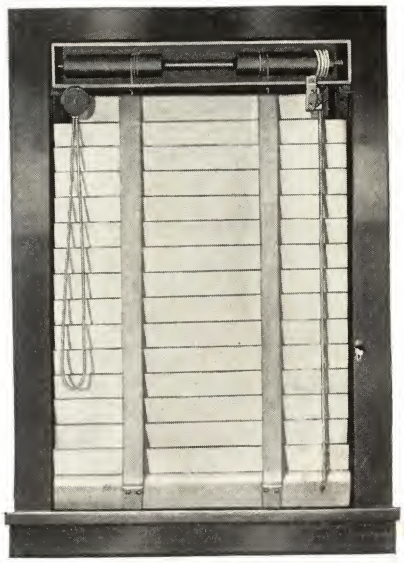
Front view of roller type blind showing mechanical lift mechanism. Type 1

End view

No. of Box	Blind Area Sq. Ft.	Width of Box	Depth of Box
1	up to and incl. 40	3½"	3½"
2	over 40 to 80 incl.	3½"	4"
3	over 80 to 120 incl.	4¾"	4¾"
4	over 120	5½"	5½"

Note: The width of the box is the distance from top to bottom, the depth from front to back.

Mechanical roller lift installed



Model of small blind with Roller Lift, front cut away

Roller Lifts are for use on Controlite Blinds where additional ease of operation is desired.

The Roller Lift consists of spools, mounted upon a shaft and upon which the lifting cords are wound. The spools are rotated by a single cord at the right of the blind. An unique Automatic Safety Stop will hold the heaviest blind securely without the need of tying the cord.

As the winding spools rotate, they travel horizontally along the shaft. This makes the cords wind evenly and keeps the slats level at all times.

The Roller Lift Mechanism is housed in an open top metal box which takes the place of the Head Rail in pulley operated blinds. Tilting is controlled by the Columbia Worm Gear Tilt, operated by two cords at the left of the blind. The table at left shows the sizes of the four standard Roller Lift Metal Boxes.

MECHANICAL LIFTS

For exceptionally large blinds, the mechanical lift used in conjunction with the roller type blind is definitely recommended for proper operation. This is a worm gear hoist which rotates the winding spool shaft. The Lift is operated by an endless chain. Because of the worm gear, chain does not have to be fastened to hold the blind at desired level.

Mechanical Lifts can be used only with No. 4 Roller Lift.

For definite recommendation for roller type and mechanical lift blind write the Architectural Service Dept.

POCKET INSTALLATIONS

Where Roller Lift Blinds are installed in an architectural transom of large windows, provision must be made for removing the face of the transom for access to the blind mechanism. The Roller Lift boxes for this type of installation may be made with removable face.

COMPARATIVE DETAILS OF

RESIDENTIAL AND CONTROLITE BLINDS

DETAILS	RESIDENTIAL OPEN HEAD	CONTROLITE OPEN HEAD	RESIDENTIAL & CONTROLITE ENCLOSED HEAD
MAXIMUM SIZE	Area: 100 sq. ft. Width: 12 ft.	Area: 250 sq. ft. Width: 16 ft. Length: 25 ft.	same as open head
MINIMUM SIZE	Area: 2 sq. ft. Width: 12″	Area: 2 sq. ft. Width: 12″	same as open head
OPERATION	Pulley Operated. Blinds over 60″ and wider are made with Compound Pull.	Pulley operated up to 100 sq. ft. Blinds over 60″ and wider are made with Compound Pull.	same as open head
ROLLER LIFTS	See page 7	See page 7	same as open head
MECHANICAL LIFTS	See page 7	See page 7	same as open head
HEAD RAIL	1⅞″ x ⅞″	2⅜″ x 1⅛″	2⅝″ x 2-7/16″ Wooden Box
TILT RAIL	1⅞″ x ⅝″	2⅜″ x 49/64″	none
SLATS	1¾″ x ⅛″	2⅜″ x ⅛″	same as open head
BOTTOM RAIL	Single pull: 1⅞″ x ⅝″ Compound Pull: 1⅞″ x ⅞″	2⅜″ x 49/64″ 2⅜″ x 1⅛″	same as open head

PULLEYS: Lignum Vitae, steel shafts.

HARDWARE: All metal parts are bright zinc plated except Worm Gear, face of which is painted to match the blind on open head models. Plated parts may be copper-plated instead of zinc, if desired.

BRACKETS: Columbia patented Snap Lock Universal Brackets. "U" type Center Support Brackets supplied with blinds taking Center Supports.

TILTING DEVICE: Columbia Worm Gear Tilt Device, operated by cords.

AUTOMATIC STOP: Patented Automatic Safety Stop.

FINISH: High grade oil base enamel.

COLOR: In addition to regular standard colors in slats, tapes and cords, special colors may be had at additional cost.

TAPE SCHEDULE

RESIDENTIAL AND CONTROLITE BLINDS OPEN AND ENCLOSED HEADS

Tilt Rails for Open Head blinds over 40″ wide are made of more than one piece. Anti-Sag Center Supports are used to prevent sagging. Enclosed Head Blinds have no Tilt Rails.

RESIDENTIAL Width	Tapes	Tilt Rail	Center Supports	CONTROLITE Width	Tapes	Tilt Rail	Center Supports
Up to and incl. 40″	2	1 piece	None	Up to and incl. 40″	2	1 piece	None
Over 40″ to 69″	3	2 "	1	Over 40″ to 69″	3	2 "	1
Over 69″ to 94″	4	3 "	2	Over 69″ to 94″	4	3 "	2
Over 94″ to 121″	5	4 "	3	Over 94″ to 121″	5	4 "	3
Over 121″ to 144″	6	5 "	4	Over 121″ to 148″	6	5 "	4
				Over 148″ to 175″	7	6 "	5
				Over 175″ to 193″	8	7 "	6

BUNDLE SPACE FOR RESIDENTIAL AND CONTROLITE BLINDS

The Bundle space is the space occupied by the blind when fully raised. This varies for each blind and depends on the height of the blind as well as the slat size.

The most satisfactory method of installing Venetian Blinds is in a pocket above the window so that they are concealed when fully raised. The tables below give data necessary for figuring size of pockets. If blinds are to be hung on face of casing or on the wall, bundle space will indicate how high they must be hung to clear the window opening when raised. It will also show how much light is cut off when they are hung between window jambs.

Type	*Bundle Space*	*Width of Pocket*
Residential, pulley operated—Open or Enclosed Head	2½″ plus 1¾″ for each foot in height of window opening	4¼″
Controlite, pulley operated—Open Head	3⅜″ plus 1¼″ for each foot in height of window opening	4¼″
—Enclosed Head	2½″ plus 1¼″ for each foot in height of window opening	4¼″
Roller Box No. 1, Blinds up to 40 sq. ft.	5¾″ plus 1¼″ for each foot in height of window opening	5 ″
Roller Box No. 2, Blinds up to 80 sq. ft.	5¾″ plus 1¼″ for each foot in height of window opening	5½″
Roller Box No. 3, Blinds up to 120 sq. ft.	7 ″ plus 1¼″ for each foot in height of window opening	6¼″
Roller Box No. 4, Blinds over 120 sq. ft.	7¾″ plus 1¼″ for each foot in height of window opening	7 ″
Mechanically operated Roller	7¾″ plus 1¼″ for each foot in height of window opening	7¼″

SPECIFICATIONS FOR CONTROLITE BRAND

Venetian Blind Specification for ..... (name)
Building ..... (address)

General—All Venetian Blinds called for in these specifications and shown on plans or drawings shall be manufactured by THE COLUMBIA MILLS, INC., 225 Fifth Avenue, New York, N. Y. Only first quality materials shall be used, assembled in a workmanlike manner throughout to conform with the following specifications:

Brand—Blinds to be furnished under these specifications shall be the Columbia "Controlite" Brand.

Operation—Blinds up to 80 sq. ft. shall be regular pulley type assembly and lift raising cords, operating over pulleys on steel shafts. Blinds 60″ wide and less made single pull. Blinds over 60″ wide are made compound pull. Blinds over 100 sq. ft. shall be equipped with Columbia Auxiliary Roller Lifts.

Head Rail—Shall be 2⅜ in. wide by 1⅛ in. thick, exposed edges to be thoroughly sanded and rounded. Cord and pulley routings to be clean cut allowing sufficient clearance for free action of cords and pulleys.

Tilt Rail—Shall be clear well-seasoned wood 2⅜ in. wide by 49/64 in. thick with exposed edges rounded and Cord slots shall be clean cut 1⅛ in. long by $\frac{5}{16}$ in. wide.

Slats—Shall be 2⅜ in. wide and ⅛ in. thick, made of best seasoned Basswood, free from pin knots, machine marks etc. Cord slots shall be not over $\frac{5}{16}$ in. wide, clean cut without fractured edges. Ends shall be thoroughly finished.

Bottom Rails—(Blinds less than 60 in. in width.) Shall be best seasoned wood, 2⅜ in. wide by 49/64 in. thick, edges thoroughly sanded and rounded. Recesses to be provided for knotting of lift cords.

Bottom Rails—(Blinds over 60″ wide.) Shall be best seasoned wood, 2⅜ in. wide by 1⅛ in. thick. Under side to be recessed for cords and pulleys. Furnished with regular ⅛ in. covering slat on the under side.

Hardware—All hardware to be steel, bright zinc-plated. Face of worm gear painted to match slat color, rest of gear natural aluminum color.

Brackets—All pulley-operated blinds shall be hung on Columbia Universal Patented snaplock brackets, to enable removal of blinds for cleaning, etc.

Tilt Device—All blinds shall be equipped with Columbia Worm Gear tilt device insuring smooth and quiet operation of blind by use of tilt cords.

Automatic Safety Stop—All blinds shall be equipped with Columbia Automatic Safety Stop which holds the blind in any position without the necessity of fastening the cords.

Center Supports—Blinds over 40 in. in width and wider shall be equipped with bright zinc-plated steel center supports to eliminate possibility of sagging or warping. To be of a design to allow full angle of tilt in either direction without interfering with slats.

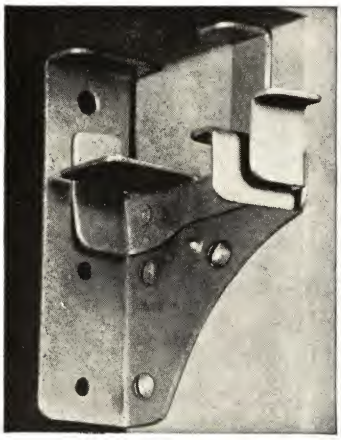
Finish—All head rails, tilt rails, slats and bottom rails including ends shall be finished with high grade enamel to produce a semi-gloss velvet finish. Color to be selected from Columbia color line.

Tapes—Shall be first quality with cross straps interwoven, free from defects in warp, woof or weaving. End tapes shall be spaced not less than 4 in. or over 9 in. from ends of slats, intermediate tapes spaced not more than 28 in. on centers.

Cords—All cords on pulley operated blinds shall be first quality No. 4½ braided cord and glazed to minimize wear. Pull cords on Roller Lift blinds shall be first quality No. 6 braided cord glazed to minimize wear. Cords on all blinds shall be of sufficient length to control tilting and raising of the blind from the floor.

Installation—To be made in a thoroughly workmanlike manner in accordance with manufacturer's standards, and to be subject to inspection and approval of manufacturer's and architect's representative.

NOTE: *Specifications for Roller and Mechanical Lift Blinds and for the Columbia Residential Blind may be had upon request.*



DETAILS OF *Columbia* RESIDENTIAL AND CONTROLITE BLINDS

UNIVERSAL BRACKETS—For all ordinary installations the Columbia Universal Snap-Lock Bracket will be found adequate. The illustration above shows the bracket for open head blinds. That for the Enclosed Head is shown on page 4. These brackets may be installed on the stop, the jamb or face of casing. For soffit installations of the open head blind special universal brackets are available.

In wide blinds where additional support is required for the head rail, Center Support Brackets are furnished. These are "U" type brackets fastened to the soffit or the face of the window casing. They are usually placed where the Anti-Sag Center Supports are and the bottom member of the bracket is recessed to accommodate either the Center Support arm or lifting cord. Where blinds are mitred for corner installation the "U" Type Center Support Bracket is usually used in place of the Universal Bracket at the mitred ends.

Where pulley operated blinds are installed in a pocket, they can be held in place by screws through the head rail into the header.

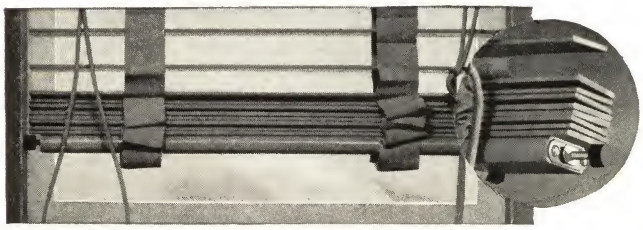
Special brackets have been developed for Roller lift blinds which contain many of the features of the Universal Snap-Lock Brackets. For difficult and unusual conditions, the Columbia Architectural Department will gladly cooperate in designing special brackets.

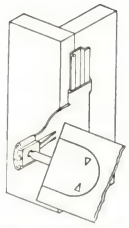
SNAP-STOP—The Columbia Snap-Stop is a patented device for preventing swaying and billowing. It is the device that makes possible at all times privacy with ventilation.

The Snap-Stop is a spring actuated rubber tipped plunger in the bottom rail which grips the window jamb or stop. It can be used only on installations on the stop or window jamb. It cannot be used on face of casing installations.

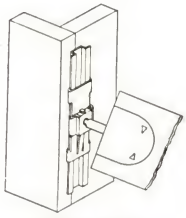
When not in use the plunger on the right hand side recedes into the Bottom Rail where it is held in place by a trigger. Slight pressure on the trigger will release the plunger so that the Snap-Stop will hold the blind. To disengage the Snap-Stop, it is necessary only to grip the Bottom Rail and move it to the right. This pushes the plunger back into its recess where the trigger holds it.

Snap-Stops are optional features with both Residential and Controlite blinds.

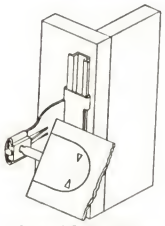




Inside Slider



Offset Slider



Outside Slider

Intermediate and Bottom Slider Guide

SLIDER GUIDES. These are another device for the prevention of swaying and billowing of Columbia blinds. They consist of guide rails which are attached to window casing or wall and Guides which are attached to the Bottom Rail and approximately every twelfth slat on the Controlite brand, and on every sixteenth slat on the Residential.

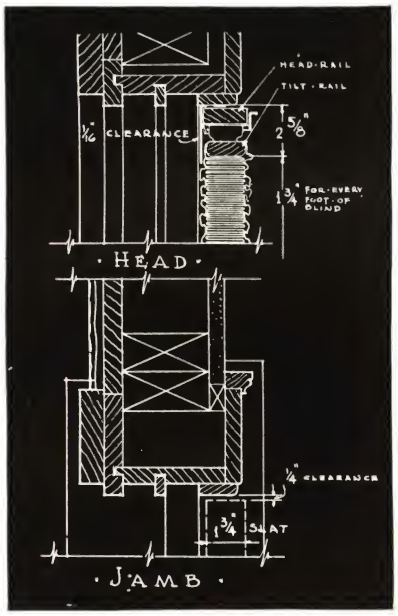
To meet the varying conditions of installation Slider guides are made in three types, illustrated above. Backing strips for the Guide Rail can be furnished to compensate for uneven wall or casing surfaces.

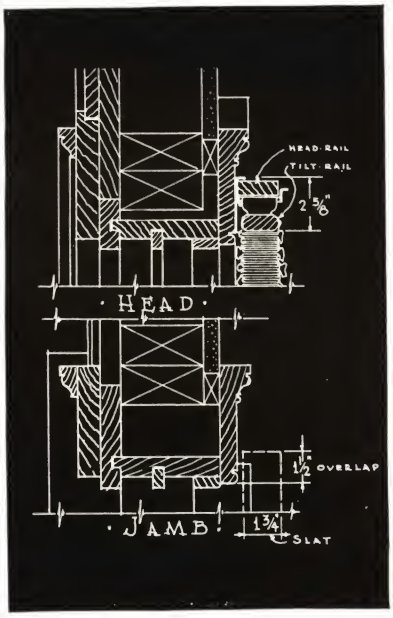
Slider Guide equipment is bright zinc-plated to match other hardware on the blind.

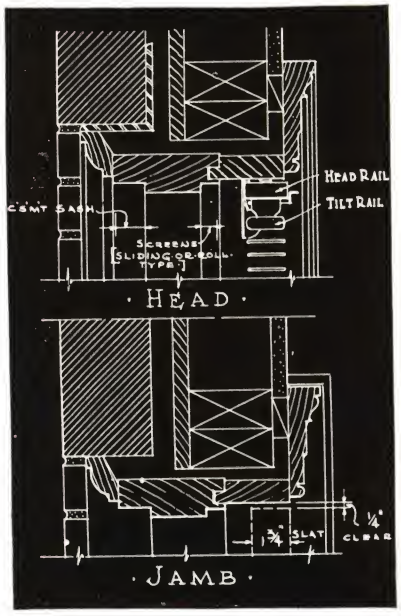
ROD AND RING GUIDES. Rod and Ring Guides may also be furnished where desired. These serve the same function as the Slider Guide Equipment but naturally not as efficiently.

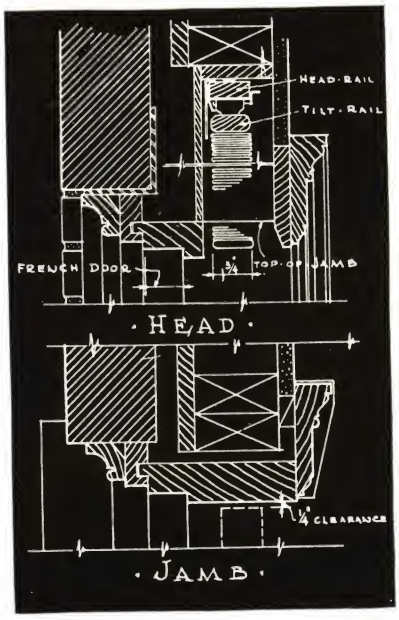
SILL BRACKETS. These are small brackets used to hold the blind from swaying. They can be used only with the blind in one position, usually fully lowered. They are fastened to the sill and engage pins in the ends of the Bottom Rail. We recommend them especially for installations on French Doors.

INSTALLATION OF *Columbia* VENETIAN BLINDS









The Four Most Usual Residential Installation Conditions

Columbia Venetian Blinds may be installed at any type window, transom or glass door. However, the most satisfactory installations are made when proper provisions for blinds have been made in the preliminary and finished drawings for the type of installation most suited to the job. A reveal too narrow to accommodate the blinds makes them project into the room beyond the window opening. Face-of-casing installations can be very satisfactory when trim has been designed to accommodate the brackets.

In planning blinds for steel sash casement windows consideration should be given to the need for hanging the blinds clear of all window hardware.

For full window corners, bays or other window angles, Columbia blinds may be mitred at one or both ends so that they will butt closely.

Standard fascia are available for inside-of-casing installations to hide head and tilt rails and mechanism. For outside-of-casing installations the fascia can be made with returns and service as a cornice. In both instances the fascia are attached to the blind which is installed with the usual Universal Brackets. Sections of standard fascia will be furnished upon application.

Illustrations at the left show the four most usual Residential installation conditions. More information is given in Columbia Architectural Data Sheets which may be had on application.

STOP BEAD

This method of installation is recommended where window reveal is shallow or entirely eliminated. Curtains may be hung in the usual way or under valances. Drawing above shows detail for Residential Blind. For dimensions on Controlite Blind see specifications on page 8.

INSIDE CASING

Where reveal or inside casing is sufficiently deep, this type of installation is recommended. Where a battery of windows occur having a total area of 80 sq. ft. or over, either two or more blinds should be used, or a single blind with roller lift, see page 7. Drawing above shows detail for Residential Blind. For dimensions on Controlite Blind see specifications on page 8.

FACE OF CASING

With this arrangement of securing blinds to trim, it is advisable to hang draperies or curtains under a valance board covered with same material or painted to match trim and blinds. Stock valance boards are available. See page 9. Drawing above shows detail for Residential Blind. For dimensions on Controlite Blind see specifications on page 8.

CONCEALED POCKET

A most satisfactory manner of installing Venetian blinds, particularly over French doors or at windows where in-swinging window screens are to be used. For height of pocket see bundle space allowances on page 8. The illustration above shows detail for Residential Blind. For Controlite Blind see specifications on page 8.

SPECIAL TYPES OF *Columbia* VENETIAN BLINDS

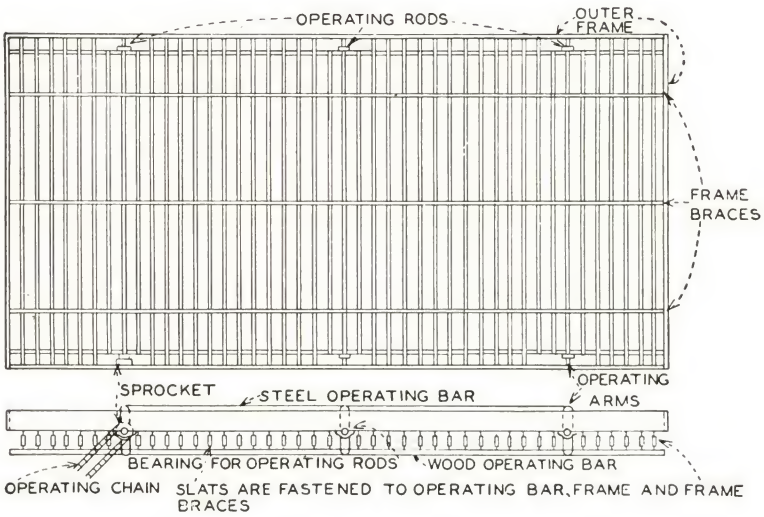
The illustrations on this page show special types of Columbia blinds for circle top and Gothic windows, transoms, store fronts and skylights.

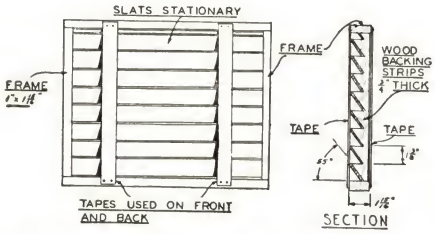
For circle top windows either a sunburst in which the slats radiate from a hub, or a circle top blind with horizontal slats may be used. In both cases the slats are set in a wooden frame at a proper angle.

Blinds for Gothic windows are made in the same manner as the circle tops. The regular blind is suspended beneath them.

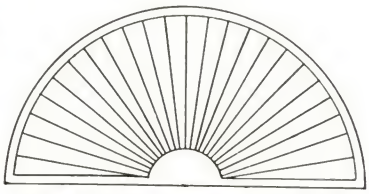
The slats in Circle top, Gothic and Transom Blinds are held in position by wooden backing strips which are always on the street side of the blind. Where desired dummy tapes may be included on the room side for appearance.

Valance blinds are recommended for store fronts. These are short stationary blinds used solely for decoration. Tapes are replaced by metal hanging strips. The slats fit into these strips at a fixed angle of 45 degrees. The slats are removable and metal strips fold up for window cleaning.

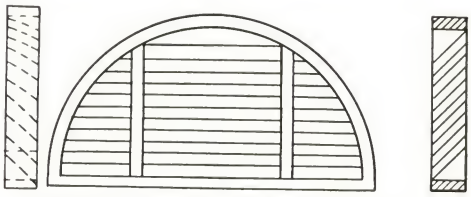




Rectangular Transom Blind with Frame



Sunburst Blind with Radial Slats



Circle Top Blind with Horizontal Slats

Columbia WINDOW SHADES

Columbia window shades are made in a variety of grades to suit practically every taste and purpose. There are several qualities in particular that are of interest to the architect. These qualities are described in detail on the following pages.

RIGIDLY SUPERVISED MANUFACTURE

The manufacture of Columbia window shades is carried out in Columbia's modern factories. Each step is carefully supervised and the cloth and rollers are put through rigid inspection tests to insure uniformity of quality.

IMPORTANT POINTS ABOUT WINDOW SHADES

The quality and service of window shades for any particular purpose depends upon several important factors, each of which should be taken into consideration when drawing up specifications. The cloth base should be of sufficient thread count to withstand heavy service. Loosely woven fabrics must be filled to give the cloth weight, and this results in a shade that may be nice to look at, but is sadly lacking in wearing qualities. The suggested fabrics on the following pages are made of closely woven muslin, tested to stand up under severe service.

As important as the base cloth are the finishing processes. For the architect's purpose, two types of shades are recommended. First, those which are painted and finished by hand. Such cloths are of sturdy construction, yet are pliable and hang flat at the window. Crescent Tinted Cambric and Damasko Hevi-Duty are the Columbia cloths in this classification. Crescent is finished with a light coat of paint, thoroughly brushed into the cloth by hand. It has a warm, translucent appearance at the window. This type is especially desirable for fine homes. Damasko is treated in much the same manner, but with a heavier finish that makes it so desirable for school and public building work. The second general type of cloth for the architect's consideration, is a pyroxylin impregnated fabric. Niagara and Columbia Pyroxylin cloth are in this classification.

In addition to the four qualities mentioned, there are many other Columbia grades. Water colors, Hollands, Machine Oils and Hand-mades, each made to the same high standards of materials and workmanship. They vary in price and wearing quality, yet each has its definite place. Most standard colors are matched in all grades. Samples and specifications on request.

ROLLER IS IMPORTANT

A window shade is no better than the roller on which it is mounted. Columbia rollers are made in a variety of diameters to supply the correct amount of lifting strength for any particular purpose. Columbia rollers are made in both wood and metal. All Columbia springs are made to have constantly a liberal amount of reserve strength so that the entire strength of the spring is not exhausted in operation.

Our representatives are available at all times to assist the architect in drawing up specifications and installation details.

Columbia SHADE CLOTH

PYROXYLIN—This is the newest of the fine Columbia shade fabrics. Made on high count, specially woven shade muslin, it is thoroughly impregnated with pyroxylin through and through. Each fibre in the fabric is thus completely waterproofed.

Columbia Pyroxylin is made in a variety of usable colors, some of which are new to shade fabrics. Repeated washing does not injure the colors or damage the surface of this cloth. There is no tendency for this fabric to lose its shape or finish even after complete immersion. Even boiling will not injure it.

Columbia Pyroxylin conforms to the U. S. Bureau of Standards specifications No. CCC for type III shadings. It is recommended for any type of installation where beauty, wear and low maintenance are desired. Width to 72 inches.

NIAGARA—A washable, waterproof shading of the finest quality. Its translucent, warm, clear colors, and velvety texture, combined with the fact that it can be easily washed without injury to finish, shape or texture, make it a beautiful as well as economical window shade. It hangs flat and will not stretch; it will not crack, show pinholes, or flake, even after numerous washings.

The high quality of this shading is preserved indefinitely at an extremely low maintenance cost. Its washability insures the permanence of its beauty.

It may be used for all purposes where a high grade, durable, and attractive shade is desired. It is especially recommended for residences, and for apartments, hotels, schools, and other public buildings. Meets U. S. Bureau of Standards Spec. No. CCC, type III. Width to 72 inches.

CRESCENT TINT—An unfilled, tinted cambric. The base is a 72x80-count cambric of the highest quality, made especially for the purpose. It is sized and painted by hand. Being translucent, it allows the sunlight to filer through it, toned into warm soft colors. It is weatherproof, cleanable, and will not crack or show pinholes. It is recommended for fine public buildings and for private homes. Meets U. S. Bureau of Standards Spec. No. CCC, type I. Width to 150 inches.

DAMASKO HEVI-DUTY CAMBRIC—Made from the same base as Columbia Crescent Tint, a highest grade, 72x80-count cambric. Like Crescent, it is hand sized, hand painted and cleanable, but it is more opaque and heavier in weight. This quality renders it especially appropriate for withstanding continuous hard usage. It will not crack or show pinholes.

Recommended for schools, office buildings, hospitals, and other places where a heavy duty shade is necessary. Meets U. S. Bureau of Standards Spec. No. CCC, type I. Width to 150 inches.

VELLMO (Light-Proof) — Where complete exclusion of light is essential Vellmo is recommended. It will completely exclude light without the sacrifice of color scheme, and is a light-proof shade of real beauty. It is ideally adapted for use in dark rooms, X-ray rooms, and auditoriums where pictures are shown. Width to 150 inches.

COLORS—Color books of the Columbia shadings will be sent on request. In addition to regular standard colors Crescent, Damasko and Vellmo can be made to match any special color desired.

WINDOW SHADE AND AWNING ROLLERS

Columbia GUARANTEED WOOD ROLLERS

Columbia Full Round Wood Rollers are made from carefully selected, well-seasoned, kiln-dried wood, and are fitted with durable metal ends which are absolutely rustproof. Extra weight springs give more than ample lifting power and have great reserve strength. Special semi-closed end construction protects the pawls from dust, moisture, and ravellings. They are made in standard sizes of $\frac{15}{16}$ in. to 1¼-in. in diameter and 18 in. to 6 ft. in length.

Columbia GUARANTEED METAL ROLLERS

Columbia Metal Rollers are manufactured of specially selected prime open-hearth tin-plate. The barrel is lock-seamed, doing away with sharp edges and giving the barrel strength and rigidity. Sagging and buckling of the rollers is prevented by this lock-seam, consisting of four plies of metal.

Brackets for metal rollers are of aluminum alloy. They are lighter, stronger, and of better appearance than the heavy cast iron type.

Metal rollers are made in the following sizes: 1, 1¼, 1½, 1¾, 2¼, 3, 4 and 5-in. in diameter, and in lengths from 18-in. to 26 ft.

Columbia GALVANIZED AWNING ROLLERS

Columbia Awning Rollers are made with galvanized iron barrels. All other parts have a rust-proof, zinc-plated finish except the pawls, which are of brass.

They are constructed throughout for heavy work and are provided with unusually powerful spring mechanisms. Awning roller brackets are sherardized and rust-proof.

All Columbia rollers are guaranteed against defects in materials and workmanship.

STANDARD SPECIFICATIONS FOR WINDOW SHADES

Window Shade Specification for .....(name)
Building .....(address)

GENERAL—These specifications shall cover the manufacture and correct installation and operation of all window shades. Shades shall be made in a thoroughly workmanlike way, cut square and true, and mounted on rollers in the same manner, using suitable substantial fasteners. The materials used in the manufacture of these shades shall be commercially perfect and of first quality.

All shades shall be clean and free from dirt, finger marks, and other imperfections due to faulty handling. A complete shade shall be submitted with bid as a sample and will be held until job has been approved.

The contractor shall be responsible for any damage to the building, which is caused by him or his employees; he must also protect his work from damage until released by its final acceptance and must clear away all surplus material or scaffolding used in the erection of the shades.

CLOTH—All shades shall be made of (Columbia Pyroxylin) (Niagara, Washable-Waterproof), (Damasko Hevi-Duty Hand-made Unfilled Cambric), (Crescent Hand-made Unfilled Tinted Cambric), (Vellmo Light-proof Cloth), as manufactured by The Columbia Mills, Inc.

The above cloth to meet Government specifications CCC-C-521 of August 27, 1937.

COLOR—Shall be .....(as selected)

LENGTH—All shades shall be finished 12 in. longer than actual height of the window frame.

ROLLERS—All shades shall be mounted on *Columbia* Guaranteed Metal Rollers of ( ) diameter and shall be constructed with lock-stream reinforced barrels.

Alternate clause for wood rollers: All shades shall be mounted on *Columbia* Guaranteed Wood Rollers of ( ) diameter.

SLATS—All shades shall be equipped with smooth, kiln-dried wooden slats of either 7/8 in. or 1 1/4 in. in diameter as the conditions demand. Shades over 5 ft. in width shall be equipped with smooth, kiln-dried wooden 2-in. slats in hems.

EYELETS—All shades shall be equipped with stainless aluminum eyelet in center of hem for cord.

CORD—All shades to be equipped with No. (....) cord, same to match color of shades, and securely fastened in the center eyelet, allowing enough length to permit the shade to be drawn to the bottom of the window and rolled to the top without going over the roller and fastened 24 in. above the sill on the left side.

CORD HOLDERS—Cord holders are to be installed 24 in. above the sill. To consist of Parker hollow metal screw-eyes in the event that the casings are of steel or other metal. On wood casings, Crampton cord holders are required.

BRACKETS (for Metal Rollers)—On steel or other metal casings, aluminum brackets are to be installed in the proper location at the top of the window, and are to be securely fastened in this location by the use of hollow metal or machine screws. In the event that the casings are of wood, brackets are to be fastened by means of brass wood screws

BRACKETS (for Wood Rollers)—Brackets for wood rollers shall be stamped nickel-plated steel brackets fastened with brass wood screws if the casings are of wood. On steel or other metal casings, brackets shall be securely fastened either by use of machine or hollow metal screws.

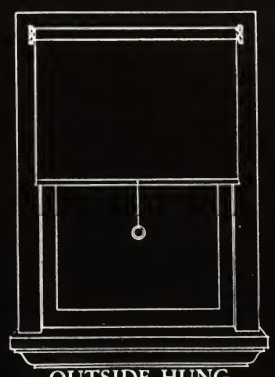
DELIVERY—All shades shall be completed 30 days after receipt of contract or date agreed upon.

Note: This quotation covers labor, materials and all appliances herein specified above for the necessary installation and complete operation of the shades.

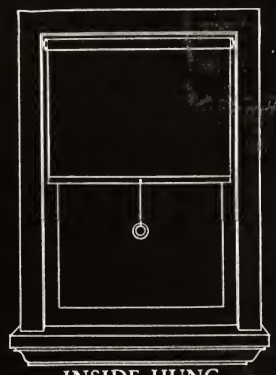
INSTALLATION SUGGESTIONS

Columbia shades may be installed at any type window opening. The illustrations below indicate the most widely used types of windows and the manner in which shades are installed.

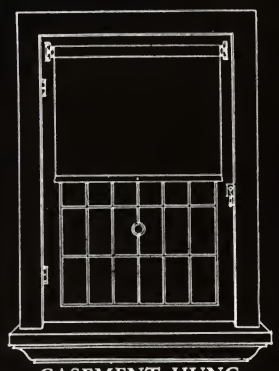
In addition to the shade brackets shown here, there are many varieties for special purposes and unusual conditions. Columbia Architectural Service Department will gladly cooperate in planning shade installations best suited to the proper shading of any job.



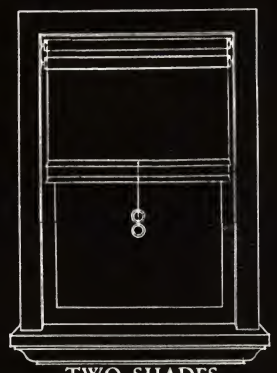
OUTSIDE HUNG
Brackets fastened to the face of the casing



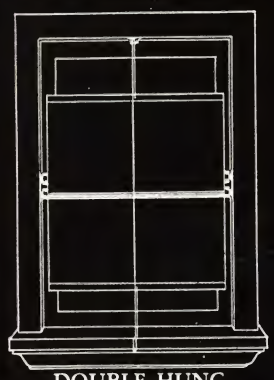
INSIDE HUNG
Brackets fastened to the inside of the casing



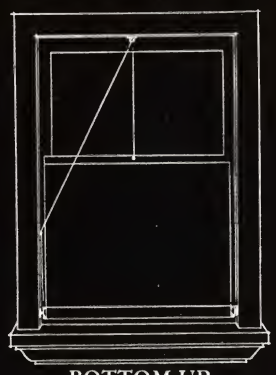
CASEMENT HUNG
Brackets fastened to top rail of casement sash



TWO SHADES
Hung on the inside of the casing



DOUBLE HUNG
One shade pulls up and the other down. May be inside or outside the casing



BOTTOM-UP
Inside or outside with stop pulley

THE COLUMBIA MILLS
INCORPORATED

225 FIFTH AVENUE, NEW YORK

BRANCHES

BOSTON	470 Atlantic Avenue
CHICAGO	1541 Merchandise Mart
CINCINNATI	205 W. 4th Street
DALLAS	2401 S. Harwood Street
DENVER	1863 Wazee Street
DETROIT	3297 Hubbard Avenue
JERSEY CITY	18th & Grove Streets
KANSAS CITY	710 Central Avenue
LOS ANGELES	2620 Lacy Street
MINNEAPOLIS	400 First Avenue North
NEW ORLEANS	816 Howard Street
PHILADELPHIA	South & Water Streets
PITTSBURGH	1841 Forbes Street
PORTLAND	408 N. W. 5th Avenue at Flanders Street
ST. LOUIS	11th & Clark Streets
SAN FRANCISCO	32 Otis Street
SEATTLE	1716 Yale Avenue